

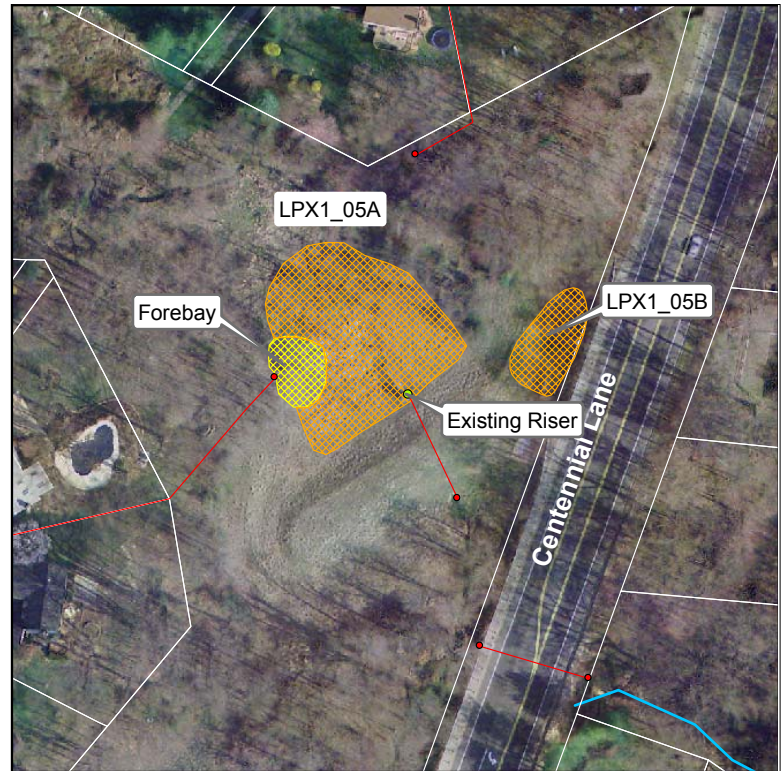
Proposed Project

Upper Little Patuxent

Project Number: LPX1_05A
Subwatershed: Little Patuxent 1

Project Type: Pond Retrofit
Project Size: 41.8 acre drainage area/ 9.6 acres impervious

Project Location: In the open space between Centennial Lane, Rope Maker Drive and Burleigh Cottage Lane.



Project Description: This project would entail retrofitting an existing pond near Centennial Lane which captures runoff from storm drains in the surrounding community. The pond would be excavated to increase detention volume to provide pollutant removal to current design standards. The design would incorporate water quality features such as an aquatic bench, forebay and a meandering flow path. Because the project is a wet pond and is located near private residences, property owners would be kept informed and involved in the planning and design process.

Project Benefits:

Water Quality	Conversion to a wet pond designed to current standards would provide water quality treatment and pollutant removal.
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Project Constraints:

Environmental	No environmental constraints are anticipated with this project.
Property Ownership	The project lies within County owned open space (Burleigh Manor natural resources open space).
Facility Access	Access to this site is obtained from Centennial Lane.
Design / Construction	Traffic maintenance will be required due to volume of traffic on Centennial Lane.

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Cost Detail:

ITEM	QTY	UNITS	UNIT COST	TOTAL
Site Work				
Clear and Grub	0.2	AC	\$5,000.00	\$1,150
Pavement / Sidewalk Removal		SY	\$7.50	\$0
Curb-Gutter Removal		LF	\$10.00	\$0
Remove Pilot Channels		LF	\$6.00	\$0
Remove Barrel Pipe		LF	\$77.00	\$0
Pond Construction				
Grading and Excavation (Class I)	1,477	CY	\$30.00	\$44,310
Hauling and Disposal	1,477	CY	\$20.00	\$29,540
Embankment		CY	\$60.00	\$0
Forebay	173	CY	\$45.00	\$7,785
Safety bench	243	CY	\$30.00	\$7,290
Riser		LS	\$10,000.00	\$0
Outflow Pipe		LF	\$80.00	\$0
Outlet Protection	1	LS	\$8,000.00	\$8,000
Rip Rap Stabilization		LF	\$50.00	\$0
SWM Landscaping	1,257	SY	\$10.00	\$12,570
			Direct Construction Subtotal	\$110,645
Indirect Costs				
E/SC, MOT, MOS (20% of Directs or \$10,000)	1	LS	\$22,129.00	\$22,129
Construction Stakeout (\$1,000/Day)	3	Day	\$3,000.00	\$3,000
			Base Construction Cost	\$135,774
			Mobilization (10% of Directs or \$1,000)	\$11,065
			Subtotal	\$146,839
			Contingency (30%)	\$44,052
			Construction Subtotal	\$190,890
			Env't'l Studies / Permitting (5% of Construction or \$5,000)	\$9,545
			Engineering and Surveys (25% of Construction or \$40,000, maximum \$50,000)	\$47,723
			Total Capital Cost	\$248,157
Operations and Maintenance Costs				
Annual Maintenance	6	Percent	\$6,639	
Discount Rate	5	Percent		
Expected Life	20	Years		
			Net Present Value of O&M Costs	\$82,733
			Life Cycle Cost	\$330,900